

CLAIMS

There are no amendments to the claims.

X A complete listing of all claims ever present in this case in ascending order with status identifier is presented in a separate section.

FEE CALCULATION

Any additional fee required has been calculated as follows:

____ If checked, Small Entity status is claimed

	No. Claims After Amendment		Highest No. Previously Paid For		Extra Present		Rate	Additional Fee
Total	20	MINUS	20**	=	0	X		\$
Indep.	1	MINUS	3**	=	0	X		\$
First presentation of multiple dependent claim(s)						X		\$
TOTAL								\$ -0-

* not less than 20

** not less than 3.

In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee during the prosecution of this application is not paid, the Patent Office is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 50-2215.

CONTINGENT EXTENSION REQUEST

If this communication is filed after the shortened statutory time period had elapsed and no separate Petition is enclosed, the Commissioner of Patents and Trademarks is petitioned, under 37 C.F.R. § 1.136(a), to extend the time for filing a response to the outstanding Office Action by the number of months which will avoid abandonment under 37 C.F.R. § 1.135. The fee under 37 C.F.R. § 1.17 should be charged to our Deposit Account No. 50-2215.

**COMPLETE LISTING OF CLAIMS
IN ASCENDING ORDER WITH STATUS INDICATOR**

2 | 1. (Currently amended) An insulating ceramic compact comprising a fired mixture of MgAl_2O_4 -based ceramic and borosilicate glass, wherein the ~~borosilicate glass~~ fired compact comprises an MgAl_2O_4 crystal phase and at least one of an $\text{Mg}_3\text{B}_2\text{O}_6$ crystal phase and an $\text{Mg}_2\text{B}_2\text{O}_5$ crystal phase.

| 2. (Currently amended) An insulating ceramic compact according to Claim 1, wherein the ~~borosilicate glass~~ fired compact further comprises an Mg_2SiO_4 crystal phase.

3. (Original) An insulating ceramic compact according to Claim 2, wherein the borosilicate glass comprises about 8 to 60 wt% of boron oxide calculated as B_2O_3 , about 10 to 50 wt% of silicon oxide calculated as SiO_2 and about 10 to 55 wt% of magnesium oxide calculated as MgO .

4. (Original) An insulating ceramic compact according to Claim 3, wherein the borosilicate glass comprises about 20 to 40 wt% of boron oxide calculated as B_2O_3 , about 13 to 38 wt% of silicon oxide calculated as SiO_2 and about 35 to 53 wt% of magnesium oxide calculated as MgO .

5. (Original) An insulating ceramic compact according to Claim 4, wherein the borosilicate glass comprises about 20 wt% or less of alkali metal oxide, about 20 wt% or

less of aluminum oxide, about 30 wt% or less of zinc oxide, and about 10 wt% or less of copper oxide.

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6. (Original) An insulating ceramic compact according to Claim 2, wherein the ratio of the MgAl_2O_4 -based ceramic to the borosilicate glass is in the range of from about 20 : 80 to 80 : 20 on a weight basis.

7. (Currently amended) An insulating ceramic compact according to Claim 2, wherein the ~~borosilicate glass~~ fired compact contains about 5 to 80 wt% of the MgAl_2O_4 and about 5 to 70 wt% of the at least one of $\text{Mg}_3\text{B}_2\text{O}_6$ and $\text{Mg}_2\text{B}_2\text{O}_5$, based on the total amount of the Mg_2SiO_4 , $\text{Mg}_3\text{B}_2\text{O}_6$ and $\text{Mg}_2\text{B}_2\text{O}_5$ crystal phases.

8. (Original) An insulating ceramic compact according to Claim 7, wherein the ratio of the MgAl_2O_4 -based ceramic to the borosilicate glass is in the range of from about 20 : 80 to 80 : 20 on a weight basis, the borosilicate glass comprises about 20 to 40 wt% of boron oxide calculated as B_2O_3 , about 13 to 38 wt% of silicon oxide calculated as SiO_2 and about 35 to 53 wt% of magnesium oxide calculated as MgO , and wherein the borosilicate glass comprises about 20 wt% or less of alkali metal oxide, about 20 wt% or less of aluminum oxide, about 30 wt% or less of zinc oxide, and about 10 wt% or less of copper oxide.

9. (Original) An insulating ceramic compact according to Claim 1, wherein the borosilicate glass comprises about 8 to 60 wt% of boron oxide calculated as B_2O_3 , about

10 to 50 wt% of silicon oxide calculated as SiO_2 and about 10 to 55 wt% of magnesium oxide calculated as MgO .

10. (Original)

An insulating ceramic compact according to Claim 9, wherein the borosilicate glass comprises about 20 to 40 wt% of boron oxide calculated as B_2O_3 , about 13 to 38 wt% of silicon oxide calculated as SiO_2 and about 35 to 53 wt% of magnesium oxide calculated as MgO .

11. (Original)

An insulating ceramic compact according to Claim 10, wherein the borosilicate glass comprises about 20 wt% or less of alkali metal oxide, about 20 wt% or less of aluminum oxide, about 30 wt% or less of zinc oxide, and about 10 wt% or less of copper oxide.

12. (Original)

An insulating ceramic compact according to Claim 1, wherein the ratio of the MgAl_2O_4 -based ceramic to the borosilicate glass is in the range of from about 20 : 80 to 80 : 20 on a weight basis.

13. (Currently amended)

An insulating ceramic compact according to Claim 1, wherein the ~~borosilicate glass~~ fired compact contains about 5 to 80 wt% of the MgAl_2O_4 and about 5 to 70 wt% of the at least one of $\text{Mg}_3\text{B}_2\text{O}_6$ and $\text{Mg}_2\text{B}_2\text{O}_5$, based on the total amount of the Mg_2SiO_4 , $\text{Mg}_3\text{B}_2\text{O}_6$ and $\text{Mg}_2\text{B}_2\text{O}_5$ crystal phases.

14. (Original) An insulating ceramic compact according to Claim 13, wherein the ratio of the MgAl_2O_4 -based ceramic to the borosilicate glass is in the range of from about 20 : 80 to 80 : 20 on a weight basis, the borosilicate glass comprises about 20 to 40 wt% of boron oxide calculated as B_2O_3 , about 13 to 38 wt% of silicon oxide calculated as SiO_2 and about 35 to 53 wt% of magnesium oxide calculated as MgO , and wherein the borosilicate glass comprises about 20 wt% or less of alkali metal oxide, about 20 wt% or less of aluminum oxide, about 30 wt% or less of zinc oxide, and about 10 wt% or less of copper oxide.

15. (Original) A ceramic multilayer substrate comprising:
a plurality of insulating ceramic layers comprising an insulating ceramic compact according to Claim 1; and
a plurality of internal electrodes on the plurality of insulating ceramic layers.

16. (Original) A ceramic multilayer substrate according to Claim 15, having on at least one surface of each of the insulating ceramic layers, a second ceramic layer which has a dielectric constant higher than that of the insulating ceramic layer on which it is disposed.

17. (Original) A ceramic multilayer substrate according to Claim 15, wherein a pair of the internal electrodes and at least a part of a insulating ceramic layer form a laminated capacitor.

18. (Original) A ceramic multilayer substrate according to Claim 17, wherein a plurality of internal electrodes form a coil conductor, whereby a laminated inductor has been formed.

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19. (Original) A ceramic electronic device comprising:
a ceramic multilayer substrate according to Claim 15; and
at least one electronic element mounted on the ceramic multilayer substrate so as to form a circuit together with the plurality of internal electrodes.

20. (Original) A ceramic electronic device according to Claim 19, further comprising:
a plurality of external electrodes on the bottom surface of the ceramic multilayer substrate; and
wherein the substrate contains throughholes having conductors therein, the conductors electrically connecting an external electrode to an internal electrode or to the electronic element.

